

*ABSTRACT AMENDMENT*

Replace the Abstract with:

A rod integrator includes a quadrangular prismatic light-guiding member with a rectangular cross-sectional shape. The light-guiding member guides ~~the~~ a light beam from ~~the~~ a first end surface to ~~the~~ a second end surface, opposing the first end surface, while ~~causing~~ the beam ~~to be~~ is reflected by the side surfaces ~~such so~~ that the beam is ~~outputted~~ output from the second end surface. The rod integrator includes a tube-shape body having the first open end portion tightly surrounding the end portion of the light-guiding member on the side of the second end surface, and having the second open end portion from which the beam is ~~outputted~~ output while causing the beam from the first end portion to be reflected by inner mirror surfaces of the tube-shape body. The tube-shape body is arranged, in a pinwheel shape, ~~a first. First,~~ second, third, and fourth members, each of which ~~is in~~ has a plate shape and ~~has~~ a mirror surface on one side, ~~one are arranged on~~ are arranged on the light-guiding member, such that the tube-shape body has the mirror surfaces facing inside ~~thereof~~.